

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("5769525").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 12:08
S2	716	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 12:08
S3	2783	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 12:09
S4	929	S3 and (horizontal\$2 and vertical\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 12:10
S5	175	S3 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 12:10
S6	33	S2 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 12:11
S7	858	S2 or S5	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 12:10
S8	716	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 13:49
S9	2783	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 13:49
S10	175	S9 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 13:49
S11	33	S8 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 13:49

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S12	858	S8 or S10	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 13:49
S13	825	S12 not S11	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 14:05
S14	716	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 14:06
S15	2783	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 14:06
S16	175	S15 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 14:06
S17	33	S14 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 14:06
S18	858	S14 or S16	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 14:06
S19	825	S18 not S17	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 14:06
S20	201	S19 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 14:07
S21	1	("20020097585").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 15:52
S22	716	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 15:52
S23	2783	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/18 15:52

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S24	175	S23 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 15:52
S25	33	S22 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 15:52
S26	858	S22 or S24	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 15:52
S27	825	S26 not S25	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 15:52
S28	201	S27 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 15:52
S29	624	S27 not S28	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/02/18 15:52
S33	1	("5769525").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S34	746	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S35	2857	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S36	965	S35 and (horizontal\$2 and vertical\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S37	187	S35 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S38	897	S34 or S37	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55

## EAST Search History

S39	36	S34 and S37	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S40	746	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S41	2857	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S42	187	S41 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S43	36	S40 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S44	897	S40 or S42	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S45	861	S44 not S43	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S46	746	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S47	2857	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S48	187	S47 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S49	36	S46 and S48	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S50	897	S46 or S48	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55

## EAST Search History

S51	861	S50 not S49	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S52	214	S51 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S53	1	("20020097585").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S54	746	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S55	2857	(362/464,459,466-469,509,512,515,516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/25 10:55
S56	187	S55 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S57	36	S54 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S58	897	S54 or S56	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S59	861	S58 not S57	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S60	214	S59 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S61	647	S59 not S60	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2006/07/25 10:55
S62	1	("5769525").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28

## EAST Search History

S63	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S64	2941	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S65	1004	S64 and (horizontal\$2 and vertical\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S66	202	S64 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S67	933	S63 or S66	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S68	39	S63 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S69	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S70	2941	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S71	202	S70 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S72	39	S69 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S73	933	S69 or S71	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S74	894	S73 not S72	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28

## EAST Search History

S75	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S76	2941	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S77	202	S76 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S78	39	S75 and S77	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S79	933	S75 or S77	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S80	894	S79 not S78	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S81	230	S80 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S82	1	("20020097585").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S83	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S84	2941	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S85	202	S84 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S86	39	S83 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28

## EAST Search History

S87	933	S83 or S85	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S88	894	S87 not S86	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S89	230	S88 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S90	664	S88 not S89	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S91	1	("5769525").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S92	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S93	2941	(362/464,459,466-469,509,512,515,516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S94	1004	S93 and (horizontal\$2 and vertical\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S95	202	S93 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S96	933	S92 or S95	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S97	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S98	2941	(362/464,459,466-469,509,512,515,516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28



## EAST Search History

S99	202	S98 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 0	39	S97 and S99	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 1	933	S97 or S99	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 2	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S10 3	2941	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S10 4	202	S103 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 5	39	S102 and S104	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 6	933	S102 or S104	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 7	894	S106 not S105	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S10 8	770	(362/465,514,519,525).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S10 9	2941	(362/464,459,466-469,509,512,515, 516,523,526).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S11 0	202	S109 and (horizontal\$2 and vertical\$2 and halogen)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28

## EAST Search History

S11 1	39	S108 and S110	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 2	933	S108 or S110	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 3	894	S112 not S111	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 4	230	S113 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 5	1	("20020097585").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/01/05 19:28
S11 6	39	S92 and S95	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 7	230	S107 and ((high and low) with beam)	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 8	664	S113 not S114	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28
S11 9	894	S101 not S100	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2007/01/05 19:28